Materials Laboratory
Strategic Directions 05-07

8/14/2006

Pavements

Linda Pierce		2005						2006									2007					
		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter			5th Quarter			6th Quarter			7th Quarter			8th Quarter		
Task	Description	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
1	Quieter Pavement, Phase I													50%											
2	BST Protocol													20%											
3	Benefits of dowel bars													50%											
4	PCCP Smoothness Specification													50%											
5	Performance of ¾" HMA													80%											

Jeff Uhlmeyer		2005						2006									2007					
		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter			5th Quarter			6th Quarter			7th Quarter			8th Quarter		
Task	Description	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
6	Rehabilitation Reports													50%											
7	Pavement Type Selection													50%											
8	Class D/Class D Modified													40%											
9	Thermal Imaging													60%											
10	Implementation Tack Coat Findings													40%											
11	Eastern Region Pavement Performance													65%											
12	Forensic Investigations Annual Report													50%											
13	Experimental Features Annual Report													50%											

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Dennis Crimmins		2005						2006									2007					
		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter			5th Quarter			6th Quarter			7th Quarter			8th Quarter		
Task	Description	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
14	Identify HMA Deficiancies													60%											
15	Studded Tire Damage on HMA													30%											

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Task	Description
1	Identify location for quieter pavement study, develop test section layout, develop Special Provision, evaluate construction process and measure short-term impacts and develop a plan for long-term performance impacts (Phase II). **Status:**
2	Coordinate with the BST Task Force and the UW study to pursue refinement and implementation of the BST protocol. **Status:**
3	Develop dowel bar white paper explaining science and need for use (response to Eastern Region). **Status:**
4	Develop smoothness specification for concrete pavements. **Status:**
5	Investigate performance of HMA ¾ inch mixes. **Status:**
6	Rehabilitation reports – review process and speed up if possible, use annual report to identify common problems that need fixing (as identified develop). **Status:**
7	Pavement type selection – annually report to the pavement type selection committee. **Status:**
8	Update pavement performance of Class D and Class D modified HMA. **Status:**
9	Investigate how WSDOT is addressing the potential thermal density differential on 2006 projects and how WSDOT might deploy the thermal segregation detection system developed by TxDOT. **Status:**
10	Develop specifications and implement findings of tack coat test section results. **Status:**

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Task	Description
11	Investigate performance issues with NE Washington HMA pavements. **Status:**
12	Annual summary of results found in pavement failure Forensic Evaluations **Status:**
13	Annual summary of status of pavement experimental features **Status:**
14	Identify HMA deficiencies (lack of structure, freeze/thaw, intersections with chronic rutting). **Status:**
15	Evaluate studded tire wear damage on HMA pavements. **Status:**